

Application No. 10/528,298
Amendment Dated September 18, 2008
Reply to Office Action Dated April 18, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1 – 10. (cancelled)

11. (currently amended) A process for preparing a self lubricating varnish comprising a modified polymer having a base polymer modified diisocyanate to which is attached a pendant aliphatic chain containing at least 15 carbon atoms, said process for obtaining said modified diisocyanate comprising the steps of:

preparing a modified diisocyanate to which is attached a pendant aliphatic chain containing at least 15 carbon atoms, said modified diisocyanate being obtained by reacting an isocyanate functional group of a triisocyanate with a terminal functional group of an aliphatic chain; and

carrying out said preparation of the modified diisocyanate in a solvent medium with stirring and heating; and

mixing said modified diisocyanate with at least one difunctionalized monomer containing two functional groups which are reactive with the isocyanate functional groups of the modified diisocyanate to carry out said synthesis of said modified polymer.

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12. (previously presented) The process for preparing a modified diisocyanate as claimed in claim 11, wherein said terminal functional group is selected from alcohols, anhydrides, carboxylic acids and amines.

13. (cancelled).

14. (currently amended) The process for preparing a self-lubricating insulating varnish as claimed in claim [[13]] 11, wherein said base polymer is a polyamide-imide.

15. (currently amended) The process for preparing a self-lubricating insulating varnish as claimed in claim [[13]] 11, wherein said base polymer is selected from polyurethanes, polyamides, polyesters, polyester-imides, solderable polyester-imides, polyester amide-imides, polyimides, polyepoxide compounds and polyphenoxide compounds.

16. (currently amended) The process for preparing a self-lubricating insulating varnish as claimed in claim [[13]] 11, wherein said base polymer is a semiaromatic polyamide and wherein an anchor group, attaching the base polymer to said pendant aliphatic chain, is a urethane or an amide, such that said self-lubricating insulating varnish is thermally adhering.

17. (currently amended) The process for preparing a self-lubricating insulating varnish as

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claimed in claim [[13]] 11, wherein, said base polymer being a polyurethane, the process further comprises a step of mixing the modified polyurethane with a polymer selected from a solderable polyester-imide and a modified solderable polyester-imide.

18. (currently amended) The process for preparing a self-lubricating insulating varnish as claimed in claim [[13]] 11, wherein a difunctionalized monomer containing two functional groups is mixed with said modified diisocyanate.

19. (currently amended) A process for producing an enameled electrical conductor, said process comprising the steps of:

preparing the self-lubricating insulating varnish as claimed in claim [[13]] 11; and
coating an electrical conductor with a layer of the self-lubricating insulating varnish.